EAST Search History

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L2	2303	(502/117).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/04/15 15:21
L3	930	(526/161).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/04/15 15:38
L4	119	(526/178).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR .	OFF	2006/04/15 15:45
L 5	77	(526/198).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/04/15 15:49
L6	1476	(526/348).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/04/15 16:16
L7	798	(546/2).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/04/15 16:16

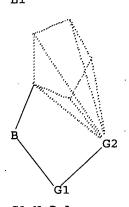
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(FILE 'HOME' ENTERED AT 17:32:21 ON 15 APR 2006)

FILE 'REGISTRY' ENTERED AT 17:32:58 ON 15 APR 2006 STRUCTURE UPLOADED

=> d l1 L1 HAS NO ANSWERS



G1 N, P, As G2 Cr, Mo, Ti, V, W

Structure attributes must be viewed using STN Express query preparation.

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SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
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PROJECTED ANSWERS:

1 TO 80

L2 1 SEA SSS SAM L1

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100.0% PROCESSED 502 ITERATIONS 15 ANSWERS

SEARCH TIME: 00.00.01

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FILE COVERS 1907 - 15 Apr 2006 VOL 144 ISS 17
FILE LAST UPDATED: 14 Apr 2006 (20060414/ED)

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http://www.cas.org/infopolicy.html

=> s 13

L4 10 L3

=> d 1-10 bib abs

- L4 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 2006:81954 CAPLUS
- DN 144:292857
- Derivatization of, boryl substituted titanium half-sandwich complexes Molecular structures of $[Ti\{(\eta_5-C5H4)B(NiPr2)N(H)tBu\}Cl2(NMe2)]$ and $[\{TiCl2(\mu-\{OB(NHMe2)-\eta_5-C5H4\})\}2-\mu-O]$
- AU Braunschweig, Holger; Breitling, Frank M.; Burschka, Christian; Seeler, Fabian
- CS Institut fuer Anorganische Chemie, Julius-Maximilians-Universitaet Wuerzburg, Wuerzburg, D-97074, Germany
- SO Journal of Organometallic Chemistry (2006), 691(4), 702-710 CODEN: JORCAI; ISSN: 0022-328X
- PB Elsevier B.V.
- DT Journal
- LA English
- AΒ The half-sandwich complex $[Ti\{(\eta 5-C5H4)B(NiPr2)N(H)iPr\}(NMe2)3]$ (6) was prepared from (n1-C5H5)B(NiPr2)N(H)iPr (5) and [Ti(NMe2)4] with cleavage of one equiv of HNMe2 and further converted into the corresponding constrained geometry complex [Ti{(η5-C5H4)B(NiPr2)NiPr}(NMe2)2] (7) by elimination of a 2nd equiv of HNMe2. Reaction of the half-sandwich complexes [Ti{ (η5-C5H4)B(NiPr2)N(H)R}(NMe2)3] (R = iso-Pr, tert-Bu) with excess Me3SiCl yielded the corresponding dichloro complexes [Ti $\{(\eta 5-$ C5H4)B(NiPr2)N(H)RCl2(NMe2)] [R = tert-Bu (10), iso-Pr (11)]. intermediate species $[Ti\{(\eta_5-C5H4)B(NiPr2)N(H)iPr\}Cl(NMe2)2]$ (9) could also be spectroscopically characterized. Partial hydrolysis of 10 and 11, resp., gave [{TiCl2(μ -{OB(NHMe2)- η 5-C5H4})}2- μ -O] (12). The mol. structures of 10 and 12 were determined by x-ray crystallog. analyses. Complex 10, when activated with MAO, is a highly active styrene polymerization catalyst while being inactive towards the polymerization of ethylene.

RE.CNT 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L4 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 2004:181532 CAPLUS
- DN 141:23653
- TI Synthesis and structure of boron-bridged constrained geometry complexes of
- AU Braunschweig, Holger; Breitling, Frank M.; von Koblinski, Carsten; White, Andrew J. P.; Williams, David J.
- CS Institut fuer Anorganische Chemie, Julius-Maximilians-Universitaet Wuerzburg, Wuerzburg, D-97074, Germany
- SO Dalton Transactions (2004), (6), 938-943 CODEN: DTARAF; ISSN: 1477-9226
- PB Royal Society of Chemistry
- DT Journal
- LA English
- OS CASREACT 141:23653
- AB The boron-bridged constrained geometry titanium complexes $[Ti\{\eta 5: \eta 1- (C5H4)B(NR2)NPh\}(NMe2)2]$ [R = iPr (3), SiMe3 (4)] and

 $[Ti\{\eta 5:\eta 1-(C9H6)B(NiPr2)NPh\}(NMe2)2]$ (12) have been prepared in good yields by amine elimination reaction from [Ti(NMe2)4]. Subsequent. deamination-chlorination with excess Me3SiCl yielded the corresponding dichloro complexes $[Ti\{\eta 5:\eta 1-(C5H4)B(NR2)NPh\}Cl2]$ [R = iPr (5), SiMe3 (6)] and $[Ti{\eta5:\eta1-(C9H6)B(NiPr2)NPh}Cl2]$ (13). Reaction of the analogous ligand precursors (C5H5)B(NiPr2)N(H)R [R = Cy (7), tBu (8)] with [Ti(NMe2)4] did not result in the expected bridged compds., but rather in the half-sandwich complexes [Ti{(η5-C5H4)B(NiPr2)N(H)R (NMe2)3] [R = Cy (9), tBu (10)]. All compds. were fully characterized by means of multinuclear NMR spectroscopy. Thorough investigation of substituent effects was achieved by comparative x-ray diffraction studies on complexes 3, 5, 6, and 12.

THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 23 ALL CITATIONS AVAILABLE IN THE RE FORMAT

- ANSWER 3 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN L4
- AN 2003:665632 CAPLUS
- DN
- Ansa-metallocenes with B-N and B-P linkages: the importance of ΤI N-H···F-C hydrogen bonding in pentafluorophenyl boron compounds
- Lancaster, Simon J.; Mountford, Andrew J.; Hughes, David L.; Schormann, ΑU Mark; Bochmann, Manfred
- School of Chemical Sciences and Pharmacy, Wolfson Materials and Catalysis CS Centre, University of East Anglia, Norwich, NR4 7TJ, UK
- Journal of Organometallic Chemistry (2003), 680(1-2), 193-205 SO CODEN: JORCAI; ISSN: 0022-328X
- PB Elsevier Science B.V.
- DTJournal
- English LΑ
- os CASREACT 139:365027
- The reaction of Cp(CpB)ZrCl2 [CpB = η 5-C5H4B(C6F5)2] with LiNHCMe3 AΒ gave Cp(CpB) (μ-NHCMe3) ZrCl, with a constrained-geometry type Cp-B-N chelate ligand. The 19F-NMR spectrum of the Zr complexes, as well as that of the Ti analog, reveals C-F···H-N H bonding to one of the ortho-F atoms of a C6F5 ring, strong enough to persist in solution at room temperature The reaction of Cp(CpB)TiCl2 with LiPPh2 affords the Cp-B-P chelate complex Cp(CpB) (μ -PPh2) TiCl, the 1st example of a crystallog. characterized Ti(IV) phosphido compound A 19F NMR study of a number of adducts of B(C6F5)3 with primary and secondary amines demonstrates the importance of intramol. H bonding to C6F5 in this class of compds., while there are no such interactions in B(C6F5)3(PHR2) (R = Cy, Ph). The crystal structures of Cp(CpB)(μ -PPh2)TiCl, B(C6F5)3(NHMe2) and B(C6F5)3(PHCy2) are reported.
- THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 46 ALL CITATIONS AVAILABLE IN THE RE FORMAT
- ANSWER 4 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN T.4
- AN 2000:421150 CAPLUS
- DN 133:59215
- Metallocene complexes suitable as olefin polymerization catalysts TI
- Kristen, Marc Oliver; Braunschweig, Holger; Von Koblinski, Carsten IN
- PA BASF A.-G., Germany
- SO PCT Int. Appl., 27 pp.
- CODEN: PIXXD2
- DT Patent
- LA German

FAN.	CNT	1																	
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                                20030312
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                          B1 ·
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     BR 9916281
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     JP 2002532508
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                                20021002
                                            JP 2000-588186
                                                                    19991216
     AT 234316
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                                            US 2001-868101
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                                20040629
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PRAI DE 1998-19858016
                          Α
                                19981216
     WO 1999-EP10025
                          W
                                19991216
     MARPAT 133:59215
OS
     The metallocene complexes of Group IVB-VIB metals comprise ≥1
AΒ
     substituted or unsubstituted cyclopentadienyl radical bonded to a Group
     III element. The Group III element is a component in a bridging link
     between the cyclopentadienyl radical and the metal ion, carrying a N-, P-
     or S-containing organic group as its only other substituent. Thus, reaction of
     CpNa (Cp = cyclopentadienyl) with iso-Pr2NBCl2 in hexane gave iso-Pr2NBCp2
     (I), which (15 mmol) was treated with 15 mmol Ti(NMe2)4 at -60°,
     warmed to room temperature, and treated with 7.5 mmol R2BCl (RH = pyrrolidine)
     to give [iso-Pr2NBCp2]Ti(Cl)NMe2 (II) in 55% yield based on I. Polymerization of
     ethylene with the bridged metallocene II and Me aluminoxane at
     20°/5 bars for 15 min gave polyethylene of intrinsic viscosity 3.35
     dL/g with catalyst activity 5250 g polymer/g catalyst per h.
RE.CNT 22
              THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 5 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
L4
     2000:380862 CAPLUS
AN
DN
     133:150605
     Synthesis and structure of the first boron-bridged constrained geometry
TΙ
     complexes
AU
     Braunschweig, Holger; von Koblinski, Carsten; Englert, Ulli
     Inst. Anorg. Chem., Tech. Hochschule, RWTH Aachen, Aachen, Germany
CS
     Chemical Communications (Cambridge) (2000), (12), 1049-1050
SO
     CODEN: CHCOFS; ISSN: 1359-7345
     Royal Society of Chemistry
PB
DT
     Journal
LA
     English
     CASREACT 133:150605
os
     In studies on new Ziegler-Natta-analogous catalyst systems, the 1st
AB
     'constrained geometry' complexes of Ti with a bridging B atom were
     conveniently obtained by a high yield synthesis and were structurally
     characterized.
              THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
       15
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 6 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
L4
     2000:188866 CAPLUS
AN
DN
     132:334574
     Synthetic, Reactivity, and Structural Studies on Borylcyclopentadienyl
TI
     Complexes of Titanium: New CpB Titanocene Complexes with C-B-Cl, C-B-O,
     and C-B-N Bridges (CpB = \eta5-C5H4B(C6F5)2)
     Lancaster, Simon J.; Al-Benna, Sarah; Thornton-Pett, Mark; Bochmann,
ΑU
     Manfred
     School of Chemistry, University of Leeds, Leeds, LS2 9JT, UK
CS
     Organometallics (2000), 19(8), 1599-1608
SO
     CODEN: ORGND7; ISSN: 0276-7333
     American Chemical Society
PB
DT
     Journal
LA
     English
     CASREACT 132:334574
OS
     The (borylcyclopentadienyl)titanium complex (CpB)TiCl3 [1; CpB =
AB
     η5-C5H4B(C6F5)2] reacts with LiC5H5 (LiCp), LiC5H4SiMe3 (LiCp'), and
     LiC9H7 (LiInd) to give the titanocene complexes (CpB)CpTiCl2 (2),
```

(CpB)Cp'TiCl2 (3), and (CpB)(Ind)TiCl2 (4), resp. In contrast to 1, which possesses piano stool geometry with an uncoordinated, trigonal-planar

boryl moiety, the -B(C6F5)2 substituents in 2-4 act as intramol. Lewis acids by coordinating to chloride ligands, with formation of B-Cl-Ti bridges that have relatively short B-Cl and elongated Ti-Cl bonds. The compds. are fluxional, with the -B(C6F5)2 moiety switching rapidly from one chloride ligand to the other (2: ΔG .thermod. = 37 kJ mol-1 (200 K)). Recrystn. of 2 in the presence of traces of moisture afforded (CpB)CpTi(μ -OH)Cl (5), with a rigid B-O-Ti chelate arrangement. Treatment of 1 with 1 or 2 equiv of LiHNCMe3 gives the binuclear Ti imido complexes [(CpB)TiCl(μ -NCMe3)]2 (7) and [(CpB)TiCl(μ -NCMe3)] + 2NCMe3]2 (8), resp. These complexes are based on Ti2N2 rings but show no B-imide interactions. In contrast, the reaction of 2 with LiNHCMe3 affords (CpB)CpTi(μ -NHCMe3)Cl (9), which exhibits a constrained-geometry type Cp-B-N arrangement. The crystal structures of 4, 5, 8, and 9 were determined

RE.CNT 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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ANSWER 7 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
T.4
     1998:65941 CAPLUS
AN
DN
     128:141901
     Producing elastomers in the presence of donor-acceptor-bridged
ΤI
     metallocenes
     Ostoja Starzewski, Karl-Heinz Aleksander; Kelly, Warren Mark; Stumpf,
IN
     Andreas
PA
     Bayer A.-G., Germany
     PCT Int. Appl., 89 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     German
LA
FAN.CNT 6
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             PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ,
             VN, YU
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             KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
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Т3

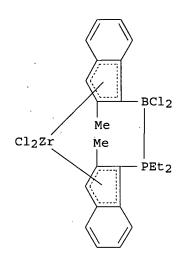
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ES 2181200

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	US 6423659	В1	20020723	US 1999-402263	19991001
	NO 9904838	. A	19991130	NO 1999-4838	19991004
	NO 319327	В1	20050711		
PRAI	DE 1996-19627064	A	19960705		
	DE 1997-19714058	Α	19970405		
	WO 1997-EP3464	W	19970702		
	WO 1998-EP1745	W	19980325		
os	MARPAT 128:141901				
СТ					



Elastomers can be produced by (co)polymerizing monomers from the group of C2-8 AΒ α -olefins, C4-15 diolefins, and other monomers in the solid phase, in solution, as a slurry, or in gas phase in the presence of the title metallocenes I.

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 2 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L4
    ANSWER 8 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
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1998:65940 CAPLUS AN

DN 128:141900

Producing thermoplastic elastomers in the presence of donor-acceptor-ΤI bridged metallocenes

Ostoja Starzewski, Karl-Heinz Aleksander; Kelly, Warren Mark; Stumpf, IN Andreas

PΑ Bayer A.G., Germany

SO PCT Int. Appl., 91 pp.

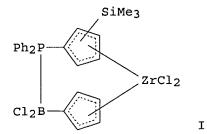
CODEN: PIXXD2

Patent DT

LA German

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								-									-				
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	JP	2000	5141	19		T2		2000	1024		JP	1998-	5047	41		1:	9970	702		
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			UA;	UG,	US,	UΖ,	VN,	˙ΥU,	ZW											
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	ΑU	AU 9870410				A1		1998	1030		ΑU	1998-	7041	0		1	9980	325		
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		9719											•	•						
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		3197				B1		2005	0912											
	US	6423	659			B1		2002	0723		US	1999-	4022	63		.1	9991	001		
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	WO 1997-EP3462					W		1997	0702											
	WO	WO 1998-EP1745 W 1998032							0325									•		
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GI

AB Thermoplastic elastomers are manufactured by (co)polymerizing monomers from the group of C2-8 α -olefins, C4-15 diolefins, and other monomers in the solid phase, in solution, as a slurry, or in the gas phase in the presence of the title metallocenes such as I.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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AN 1998:65939 CAPLUS

DN 128:128392

TI Producing high-melting polyolefins in the presence of donor-acceptorbridged metallocenes

IN Ostoja Starzewski, Karl-Heinz Aleksander; Kelly, Warren Mark; Stumpf, Andreas

PA Bayer A.-G., Germany

SO PCT Int. Appl., 91 pp.

CODEN: PIXXD2

PATENT NO.	DT LA FAN (Patent German					-											
PI WO 9801485 A1 19980115 WO 1997-EP3461 19970702 W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CZ, DE, BF, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MM, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG DE 19627064 C2 19981203 DE 19714058 A1 19980105 CA 1997-19714058 19970702 CA 2259438 AA 19980115 CA 1997-2259438 19970702 EP 909283 A1 19980125 CA 1997-30481 19970702 EP 909283 A1 19990421 EP 1997-930481 19970702 EP 909283 A1 19980105 CA 1997-394415 19970702 EP 909283 A1 19981015 CA 1997-30481 19970702 CA 2286360 AA 19981015 CA 1998-2286360 19980325 W: AL, AM, AT, AU, AZ, BB, BB, GB, RB, KY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MM, MW, MM, MN, NO, NZ, PL, PT, RO, RU, SD, ES, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GM, ML, MR, NE, SN, TD, TG AU 9870410 A1 19981015 A1 1998-70410 19980325 EP 971963 A1 20000119 EP 971963 A1 20000119 EP 1998-917075 19980325 EP 971963 B1 20020717 R: BE, DE, ES, FR, GB, IT, NL, SE FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GM, MD, MD, MM, MM, NK, SN, TD, TG AU 9870410 A1 19981030 A2 1998-917075 19980325 ES 2181200 T3 20030216 ES 1998-917075 19980325 US 6191241 B1 20050221 US 6423659 B1 20050221 US 6423659 B1 20050221 US 6423659 B1 20050211 PRAI DE 1996-19627064 A 19970405		PATENT			KIN	D DATE	:		APPL									
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DE 19714058		DE 1962	7064		A1	1998	0108		DE 1	996-	1962	7064		1	9960	705		
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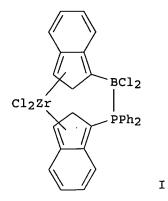
AB High-melting polyolefins are manufactured in solution, suspension, or gas phase using the title metallocenes such as I as as catalysts.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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ANSWER 10 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
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AN
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DN
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     Method for producing cycloolefin (co)polymers with high transparency
TI
     Ostoja Starzewski, Karl-Heinz Aleksander; Kelly, Warren Mark; Stumpf,
     Bayer A.-G., Germany
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AB Cycloolefin (co)polymers with high transparency are manufactured by (co)polymerizing monomers from a group of cyclic olefins, C≥2 α-olefins, and optionally, conjugated or unconjugated diolefins in the presence of metallocenes having donor-acceptor bridges such as I.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT